CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 26.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	26.05.2023	7.752	315.1	14.00
2	28.04.2023	26.05.2023	7.732	305.6	13.58
3	28.04.2023	26.05.2023	7.789	320.3	14.24

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-26

ABHILASHA K.M.
TECHNICAL MANAGER

Civil Experts Consultents & Testing Center

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 26.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	26.05.2023	7.745	314.5	13.98
2	28.04.2023	26.05.2023	7.715	320.7	14.25
3	28.04.2023	26.05.2023	7.605	322.9	14.35

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು-26

Civil Experts Consultants & Testing Center

ABHIJASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amruthanagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 26.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	26.05.2023	7.765	315.3	14.01
2	28.04.2023	26.05.2023	7.789	322.1	14.32
3	28.04.2023	26.05.2023	7.796	347.8	15.46

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consultents & Testing Center

ARUL ASHA
TECHNICAL MANAGER

174, Sri Ranga Complex, Amruta Nagar Main Road, New Bank Colony, Kononakunte, Bangalore-560061.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 27.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2023	27.05.2023	7.701	316.4	14.06
2	29.04.2023	27.05.2023	7.736	301.2	13.39
3	29.04.2023	27.05.2023	7.752	332.5	14.78

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 24.03.2023

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
REFERENCE	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015 RA-2020
1	a) Initial Setting Time	IS-4031 (Part -5) RA-2019	190 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) RA-2019	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4) RA-2019	29.00%	-

Information is furnished by the Agency

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date : 24.03.2023

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-2016

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Date of Testing : 24.03.2023
Material : Sand Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	52	3.47	3.47	96.5	90-100
2.36	134	8.93	12.40	87.6	75-100
1.18	250	16.67	29.07	70.9	55-90
600 Micron	264	17.60	46.67	53.3	35-59
300 Micron	411	27.40	74.07	25.9	8-30
150 Micron	308	20.53	94.60	5.4	0-10

Information is furnished by the Agency

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15days from date of testing.

Civil Experts Consultents & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-28

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date : 24.03.2023

TEST REPORT ON COARSE AGGREGATES
IS 383-2016

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Date of Testing : 24.03.2023

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	391	2.61	2.61	97.39	95-100
20	8148	54.32	56.93	43.07	30-70
10	3324	22.16	79.09	20.91	10-35
4.75	2520	16.80	95.89	4.11	0-5

Information is furnished by the Agency

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15days from date of testing.

Civil Experts Consultants & Testing Center

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date : 24.03.2023

TEST REPORT ON COARSE AGGREGATES
IS 383-2016

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Date of Testing : 24.03.2023
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	231	4.6	4.6	95.4	90-100
10	2421	48.4	53.0	47.0	25-55
4.75	2168	43.4	96.4	3.6	0-10

Information is furnished by the Agency

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15days from date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 26.05.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur

Reference : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Sample ID : Dry Lean Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516(Part-1/Sec-1):2021

Grade of Concrete : 1:5:10

Compressive Strength as on : 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	26.05.2023	7.726	312.3	13.88
2	28.04.2023	26.05.2023	7.736	325.6	14.47
3	28.04.2023	26.05.2023	7.752	335.8	14.92

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ABHILASHA K.M.
TECHNICAL MANAGER

Civil Experts Consultents & Testing Center

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 27.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2023	27.05.2023	7.745	314.3	13.97
2	29.04.2023	27.05.2023	7.722	289.2	12.85
3	29.04.2023	27.05.2023	7.769	321.5	14.29

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

174, Sri Ranga Complex, Amruta Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 27.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 28th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2023	27.05.2023	7.785	301.2	13.39
2	29.04.2023	27.05.2023	7.796	312.3	13.88
3	29.04.2023	27.05.2023	7.785	325.8	14.48

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 05.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	05.05.2023	7.652	215.3	9.57
2	28.04.2023	05.05.2023	7.632	201.3	8.95
3	28.04.2023	05.05.2023	7.635	223.2	9.92

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 05.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	05.05.2023	7.632	214.3	9.52
2	28.04.2023	05.05.2023	7.689	221.3	9.84
3	28.04.2023	05.05.2023	7.702	201.8	8.97

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 05.05.2023

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur

Reference : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Sample ID : Dry Lean Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516(Part-1/Sec-1):2021

Grade of Concrete : 1:5:10

Compressive Strength as on : 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	05.05.2023	7.602	201.3	8.95
2	28.04.2023	05.05.2023	7.621	223.2	9.92
3	28.04.2023	05.05.2023	7.632	215.8	9.59

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 05.05.2023

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.04.2023	05.05.2023	7.625	213.3	9.48
2	28.04.2023	05.05.2023	7.635	201.6	8.96
3	28.04.2023	05.05.2023	7.602	219.5	9.76

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 06.05.2023

TEST REPORT ON CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**: Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2023	06.05.2023	7.658	201.3	8.95
2	29.04.2023	06.05.2023	7.632	221.6	9.85
3	29.04.2023	06.05.2023	7.658	211.5	9.40

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 06.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2023	06.05.2023	7.602	216.8	9.64
2	29.04.2023	06.05.2023	7.612	201.3	8.95
3	29.04.2023	06.05.2023	7.658	218.2	9.70

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 06.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Dry Lean Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: 1:5:10
Compressive Strength as on	: 7th days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.04.2023	06.05.2023	7.602	215.3	9.57
2	29.04.2023	06.05.2023	7.612	201.3	8.95
3	29.04.2023	06.05.2023	7.635	209.5	9.31

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 02.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	02.06.2023	8.298	702.3	31.21
2	05.05.2023	02.06.2023	8.302	721.3	32.06
3	05.05.2023	02.06.2023	8.278	732.9	32.57

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultents & Testing Center

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 02.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	02.06.2023	8.341	721.2	32.05
2	05.05.2023	02.06.2023	8.332	733.2	32.59
3	05.05.2023	02.06.2023	8.356	745.9	33.15

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultents & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಧಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 02.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	02.06.2023	8.369	702.3	31.21
2	05.05.2023	02.06.2023	8.374	732.2	32.54
3	05.05.2023	02.06.2023	8.365	741.5	32.96

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
B.B.M.P. BYATARAYANAPURA

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Kononakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 02.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	02.06.2023	8.326	721.3	32.06
2	05.05.2023	02.06.2023	8.356	702.8	31.24
3	05.05.2023	02.06.2023	8.356	733.2	32.59

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 03.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2023	03.06.2023	8.359	702.3	31.21
2	06.05.2023	03.06.2023	8.369	721.3	32.06
3	06.05.2023	03.06.2023	8.374	733.8	32.61

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 03.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2023	03.06.2023	8.326	745.3	33.12
2	06.05.2023	03.06.2023	8.336	765.2	34.01
3	06.05.2023	03.06.2023	8.389	772.5	34.33

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Consultants & Testing Centre

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Rock Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 03.06.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 28 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2023	03.06.2023	8.302	702.3	31.21
2	06.05.2023	03.06.2023	8.312	721.3	32.06
3	06.05.2023	03.06.2023	8.326	733.5	32.60

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 12.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	12.05.2023	8.201	521.7	23.19
2	05.05.2023	12.05.2023	8.223	502.3	22.32
3	05.05.2023	12.05.2023	8.216	532.3	23.66

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು

Civil Xperts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Kononakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 12.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	12.05.2023	8.201	502.3	22.32
2	05.05.2023	12.05.2023	8.226	532.8	23.68
3	05.05.2023	12.05.2023	8.251	526.8	23.41

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Civil Experts Consultants & Testing Centre

ABHILASHA K.M.
TECHNICAL MANAGER

#174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 12.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	12.05.2023	8.201	516.3	22.95
2	05.05.2023	12.05.2023	8.226	521.3	23.17
3	05.05.2023	12.05.2023	8.236	532.8	23.68

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

Civil Experts Consultants & Testing Centre

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 12.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.05.2023	12.05.2023	8.203	502.3	22.32
2	05.05.2023	12.05.2023	8.221	532.3	23.66
3	05.05.2023	12.05.2023	8.236	541.9	24.08

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

Civil Experts Consultants Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 13.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2023	13.05.2023	8.201	512.3	22.77
2	06.05.2023	13.05.2023	8.226	521.8	23.19
3	06.05.2023	13.05.2023	8.236	533.2	23.70

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

Civil Experts Consultants & Testing Centre

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 13.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2023	13.05.2023	8.201	521.3	23.17
2	06.05.2023	13.05.2023	8.226	502.8	22.35
3	06.05.2023	13.05.2023	8.236	532.9	23.68

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 13.05.2023

TEST REPORT ON CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	: **Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	: Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	: BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516(Part-1/Sec-1):2021
Grade of Concrete	: M30
Compressive Strength as on	: 7 days

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2023	13.05.2023	8.201	502.3	22.32
2	06.05.2023	13.05.2023	8.226	532.2	23.65
3	06.05.2023	13.05.2023	8.236	541.8	24.08

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-೨೫

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date : 27.03.2023

GRADATION FOR WMM
MORTH TABLE-400-13

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur

Refrence : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Date of Testing : 27.03.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt 8462

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	215	215	2.5	97.5	95-100
22.4	1562	1777	21.0	79.0	60-80
11.2	2145	3922	46.3	53.7	40-60
4.75	1325	5247	62.0	38.0	25-40
2.36	1542	6789	80.2	19.8	15-30
0.600	822	7611	89.9	10.1	8-22
0.075	521	8132	96.1	3.9	0-5

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.

2. The results indicated above are based on the tests carried out on the samples received in the laboratory..

3. Any Query regarding the report must be reported within 15 days from date of testing

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consulting Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date : 27.03.2023

GRADATION FOR WMM
MORTH TABLE-400-13

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur

Refrence : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Date of Testing : 27.03.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt 9089

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	215	215	2.4	97.6	95-100
22.4	1896	2111	23.2	76.8	60-80
11.2	2185	4296	47.3	52.7	40-60
4.75	1325	5621	61.8	38.2	25-40
2.36	1785	7406	81.5	18.5	15-30
0.600	821	8227	90.5	9.5	8-22
0.075	532	8759	96.4	3.6	0-5

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.

2. The results indicated above are based on the tests carried out on the samples received in the laboratory.

3. Any Query regarding the report must be reported within 15 days from date of testing

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 **Date:** 27.03.2023

Aggregate Impact Value
IS: 2386 Part IV-1963 RA2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Refrence	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Type of Mix	Wet Mix macadam
Date of Testing	27.03.2023

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	380	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	71	72	73	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	307	308	310	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	18.78	18.95	19.06	**18.93**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.

2. The results indicated above are based on the tests carried out on the samples received in the laboratory.

3. Any Query regarding the report must be reported within 15 days from date of testing

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consulting Centre

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.:CECTC/MSV/Ward No.08/2022-23

Date: 27.03.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Refrence	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Technical Reference	IS 2386(Part 1) 1963 (RA 2021)
Type of Mix	Wet Mix Macadam
Date of Testing	27.03.2023

Result : Flakiness Index = **9.56%**

Elongation Index = **7.98%**

Result : Combined Flakiness & Elongation index **17.54%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 35%

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from date of testing

Civil Experts Consultants & Testing Center

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date : 27.03.2023

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-13

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur

Refrence : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Date of Testing : 27.03.2023

Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	22.60	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.

2. The results indicated above are based on the tests carried out on the samples received in the laboratory.

3. Any Query regarding the report must be reported within 15 days from date of testing

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date : 27.03.2023

ATTERBERG LIMITS TEST FOR WMM
MORTH TABLE-400-13

Client : **Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Sri. M.S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur

Refrence : BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023

Date of Testing : 27.03.2023

Material Type : Wet Mix Macadam

As per MORTH Table 400-13

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit	23.80	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1.The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from date of testing

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 27.03.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the work	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	27.03.2023

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl. No	Description	Test Result	Requirement as per IS:73:2013 RA: 2018
1	Penetration at 25 ^{0}C, 1/10 mm	47	Min 45
2	Softening point, ^{0}C	51	Min. 47
3	Ductility at 27^{0}C, cm	> 100	Min. 40
4	Flash Point, ^{0}C	320	Min. 220

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.
⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory
⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consultents & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/HSR/QC/2022-23 Date: 27.03.2023

Aggregate Impact Value

IS: 2386 Part IV-1963 RA 2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Source / Location	Hot mix Plant, Bangalore
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	27.03.2023

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	370	375	376	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	72	73	74	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298	302	302	
4	Aggregate Impact value = percent fines	19.46	19.47	19.68	
	100* (W_2/W_1)%				**19.54**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27%

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

#174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2622 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No: CECTC/MSV/Ward No.08/2022-23

Date: 27.03.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Technical Reference	IS 2386(Part 1) 1963 (RA 2021)
Type of Mix	Dense Graded bituminous macadam
Date of Testing	27.03.2023

Result : Flakiness Index = **10.32%**

Elongation Index = **8.63%**

Result : Combined Flakiness & Elongation index **18.95%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Dense Graded bituminous macadam is 35%

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples received in the laboratory

→ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-28

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 27.03.2023

Specific Gravity And Water Absorption Test

IS: 2386 Part III-1963 RA 2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	27.03.2023

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2022	2019	2025	
2	Weight of basket suspended in water	W_2 g	750	750	750	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1272	1269	1275	
4	Weight of saturated surface dry aggregate in air	W_3 g	2019	2020	2021	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	747	751	746	
6	Weight of oven dried aggregate	W_4 g	2009	2007	2010	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.689	2.672	2.694	2.685
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.726	2.720	2.735	2.727
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.50%	0.65%	0.55%	0.56%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory
3. Any Query regarding the report must be reported within 15 days from the date of testing.

ABHILASHA K.M.
TECHNICAL MANAGER

#174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080-2632-2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 27.03.2023

DETERMINATION OF RATE OF SPREAD PRIME COAT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
REFERENCE	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
DATE OF TESTING	:	27.03.2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Intial Wt of empty Plate (b)	Kg	1.62	1.623
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.754	1.756
Weight of Prime/Tack Coat (d=c-b)	Kg	0.1340	0.1330
Rate of spread of prime /tack coat	kg/Sq.m	0.662	0.657
Average	kg/Sq.m	0.659	
Specified Limit	kg/Sq.m	0.60 Kg/sq.m	

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory.
→ The results indicated above are based on the tests carried out on the samples received in the laboratory.
→ Any Query regarding the report must be reported within 15 days from the date of testing.

ABHILASHA K.M
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2652 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 28.03.2023

Aggregate Gradation Test
IS : 2386 Part I-1963 RA 2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	28.03.2023

Total Weight of Sample: **14475** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	425	2.9	2.94	97.06	90 - 100	
19.00	2178	15.0	17.98	82.02	71 - 95	
13.20	2316	16.0	33.98	66.02	56 - 80	
4.75	2516	17.4	51.36	48.64	38 - 54	
2.36	1875	13.0	64.32	35.68	28 - 42	
0.300	2415	16.7	81.00	19.00	7 - 21	
0.075	1896	13.1	94.10	5.90	2 - 8	

Total Weight of Sample: **14425** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Grade-II As per MORTH	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	410	2.8	2.84	97.16	90 - 100	
19	2165	15.0	17.85	82.15	71 - 95	
13.2	2314	16.0	33.89	66.11	56 - 80	
4.75	2352	16.3	50.20	49.80	38 - 54	
2.360	1896	13.1	63.34	36.66	28 - 42	
0.300	2516	17.4	80.78	19.22	7 - 21	
0.075	1785	12.4	93.16	6.84	2 - 8	

Note:

1. This test report should not be reproduced except in full, without written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Dtae: 28.03.2023

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Sample ID	Sample supplied by Agency
Date of Testing	28.03.2023

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	478.5	476
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	21.5	24.00
7. Bitumen content in %	4.30	4.80
8. Average	4.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Gradation
37.5	0	0	0	100	100
26.5	22.56	22.56	4.7	95.3	90 - 100
19	47.23	69.79	14.6	85.4	71 - 95
13.2	65.32	135.11	28.2	71.8	56 - 80
4.75	95.26	230.37	48.1	51.9	38 - 54
2.360	74.21	304.58	63.7	36.3	28 - 42
0.300	97.26	401.84	84.0	16.0	7 - 21
0.075	49.86	451.7	94.4	5.6	2 - 8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Gradation
37.5	0	0	0	100	100
26.5	23.56	23.56	4.9	95.1	90 - 100
19	47.21	70.77	14.9	85.1	71 - 95
13.2	62.36	133.13	28.0	72.0	56 - 80
4.75	98.25	231.38	48.6	51.4	38 - 54
2.360	74.16	305.54	64.2	35.8	28 - 42
0.300	95.21	400.75	84.2	15.8	7 - 21
0.075	44.35	445.1	93.5	6.5	2 - 8

Note:

- This test report should not be reproduced except in full, without written approval of the laboratory.
- The results indicated above are based on the tests carried out on the samples received in the laboratory.
- Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultents & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು

#174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No: CECTC/MSV/Ward No.08/2022-23 Date: 28.03.2023

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the work	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Dense Graded Bituminous Macadam
Date of testing	:	28.03.2023

The results of the tests conducted on the Dense Graded Bituminous Macadam sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-11)
1	Marshal Stability, Kn	9.23	10.25	9 Kn (min)
2	Marshal flow, mm	2.36	3.52	2 – 4
3	Percent air voids in Mix	3.26	4.58	3 – 5
4	Percent voids in mineral aggregates	11.25	12.56	11 - 13
5	Percent voids filled with Bitumen	65.26	66.89	65 – 75
6	Density, g/cc	2.26	2.27	--

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 28.03.2023

DETERMINATION OF RATE OF SPREAD TACK COAT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
REFERENCE	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
DATE OF TESTING	:	28.03.2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Intial Wt of empty Plate (b)	Kg	1.626	1.628
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.686	1.687
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0600	0.0590
Rate of spread of prime /tack coat	kg/Sq.m	0.296	0.291
Average	kg/Sq.m	0.294	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples received in the laboratory

→ Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Xperts Consultents & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-92

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-92

#174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 29.03.2023

TEST REPORT

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the work	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Source of location	:	Hot mix Plant, Bangalore
Date of testing	:	29.03.2023

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS: 73:2013 RA:2018
1	Penetration at 25 ^{0}C, 1/10 mm	47	Min. 45
2	Softening point, ^{0}C	49	Min. 47
3	Ductility at 27^{0}C, cm	>100	Min. 50
4	Flash Point, ^{0}C	322	Min. 220

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.
⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23

Date: 29.03.2023

Aggregate Impact Value

IS: 2386 Part IV-1963 RA 2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	29.03.2023

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	378	375	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	79	80	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	295	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	20.90	21.33	**21.12**

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

Note:

⇒ This test report should not be reproduced except in full, without written approval of the laboratory

⇒ The results indicated above are based on the tests carried out on the samples received in the laborat

⇒ Any Query regarding the report must be reported within 15 days from the date of testing

ABHILASHA K.M.
TECHNICAL MANAGER

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-26

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.:CECTC/MSV/Ward No.08/2022-23

Date: 29.03.2023

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Technical Reference	IS 2386(Part 1) 1963 (RA 2021)
Type of Mix	Bituminous concrete
Date of Testing	29.03.2023

Result : Flakiness Index = **10.63%**

Elongation Index = **8.74%**

Result : Combined Flakiness & Elongation index **19.37%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous concrete is 35%

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples received in the laboratory

→ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬೆಂಗಳೂರು-24

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 **Date** 29.03.2023

Specific Gravity And Water Absorption Test
IS: 2386 Part III-1963 RA 2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Type of Mix	Bituminous Concrete
Date of Testing	29.03.2023

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2017	2014	2018	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1262.	1259	1263	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2018	2019	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	754	759	756	
6	Weight of oven dried aggregate	W_4 g	2010	2008	2004	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.666	2.646	2.651	2.654
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.687	2.681	2.704	2.691
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.30%	0.50%	0.75%	0.52%

Comments:
→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

Note:
⇒ This test report should not be reproduced except in full, without written approval of the laboratory
⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory
⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

#174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Kononakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No: CECTC/MSV/Ward No.08/2022-23 Date: 01.04.2023

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

CLIENT	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	**Sri. M.S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
REFERENCE	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
SAMPLE I/D	Sample Supplied by Agency
DATE OF TESTING	01.04.2023

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	471	472
3. Weight of Asphalt and Mineral matter Extracted, g	29	28
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	29	28
7. Bitumen content in %	5.80	5.60
8. Average	5.70	

GRADATION AFTER EXTRACTION

TABLE - 1

Sieve size in mm	Percent Passing, %		Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Sample 1	Sample 2	
19	100.00	100.00	100
13.2	90.23	91.25	90-100
9.5	82.32	83.25	70-88
4.75	62.12	63.51	53-71
2.36	51.32	52.89	42-58
1.18	45.32	46.85	34-48
0.6	34.36	35.15	26-38
0.3	20.41	21.59	18-28
0.15	15.96	16.85	12-20
0.075	6.23	7.23	4-10

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL XPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 01.04.2023

Aggregate Gradation Test

IS : 2386 Part I-1963 RA 2021

Client	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of theWork	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Type of Mix	Bituminous Concrete
Date of Testing	01.04.2023

Total Weight of Sample: **5270** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	369	7.00	7.00	93.00	90 - 100	
9.5	601	11.40	18.41	81.59	70 - 88	
4.75	1125	21.35	39.75	60.25	53 - 71	
2.36	546	10.36	50.11	49.89	42 - 58	
1.18	485	9.20	59.32	40.68	34 - 48	
0.600	502	9.53	68.84	31.16	26 - 38	
0.300	469	8.90	77.74	22.26	18 - 28	
0.150	385	7.31	85.05	14.95	12 - 20	
0.075	478	9.07	94.12	5.88	4 - 10	

Total Weight of Sample: **5250** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	362	6.90	6.90	93.10	90 - 100	
9.5	641	12.21	19.10	80.90	70 - 88	
4.75	1125	21.43	40.53	59.47	53 - 71	
2.36	541	10.30	50.84	49.16	42 - 58	
1.18	478	9.10	59.94	40.06	34 - 48	
0.600	502	9.56	69.50	30.50	26 - 38	
0.300	463	8.82	78.32	21.68	18 - 28	
0.150	352	6.70	85.03	14.97	12 - 20	
0.075	341	6.50	91.52	8.48	4 - 10	

Note:

⇒ This test report should not be reproduced except in full, without written approval of the laboratory

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 01.04.2023

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
Reference	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	01.04.2023

The results of the tests conducted on the bituminous concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.23	10.25	9 Kn (min)
2	Marshal flow, mm	2.36	3.25	2 – 4
3	Percent air voids in Mineral Aggregate	13.23	14.85	13 – 15
4	Voids in Compacted Mix	3.26	4.25	3 – 6
5	Percent Voids filled with Bitumen	65.96	66.89	65 - 75
6	Density, g/cc	2.26	2.27	--

Note:

⇒ This test report shall not be reproduced except in full, without written approval of the laboratory.
⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory
⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

Civil Experts Consultants & Testing Center
ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner

CIVIL EXPERTS
ISO 9001:2015
CONSULTANTS & TESTING CENTER

Highway / Building Material Testing | Structural Strengthening Solutions
Quality Control / Assurance / Audit | Proof Checking (Structural Designs & Drawings)
Soil Stabilization and Shoring Services | Non - Destructive Testing

Job No.: CECTC/MSV/Ward No.08/2022-23 Date: 01.04.2023

DETERMINATION OF RATE OF SPREAD TACK COAT

CLIENT	:	**Assistant Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. M.S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads and drain at Jakkur and Jakkur Extension Surrounding area in ward no.08 Jakkur
REFERENCE	:	BBMP/EE/BTP/WO/176/2022-23 Date:15.03.2023
DATE OF TESTING	:	01.04.2023

Determination	Unit	Test No	
		1	2
Size of Plate (mxm)	mt	0.45 X 0.45	0.45 X 0.45
Area of Plate (a)	Sq.m	0.2025	0.2025
Intial Wt of empty Plate (b)	Kg	1.624	1.63
Final weight of plate after application of prime /Tack Coat (c)	Kg	1.681	1.682
Weight of Prime/Tack Coat (d=c-b)	Kg	0.0570	0.0520
Rate of spread of prime /tack coat	kg/Sq.m	0.281	0.257
Average	kg/Sq.m	0.269	
Specified Limit	kg/Sq.m	0.25 Kg/sq.m	

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory

→ The results indicated above are based on the tests carried out on the samples received in the laboratory.

→ Any Query regarding the report must be reported within 15 days from the date of testing.

Civil Experts Consultants & Testing Center

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

ABHILASHA K.M.
TECHNICAL MANAGER

174, Sri Ranga Complex, Amrutha Nagar Main Road, New Bank Colony, Konanakunte, Bangalore - 560 062.
Mobile : +91 97429 59595 | Tel/Fax : 080 2632 2565 | Email : civilexpertsltd@gmail.com | URL : www.civilexperts.co.in

Scanned by CamScanner